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13 May 1965

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## INTELLIGENCE MEMORANDUM

THE 9 MAY PARADE MISSILES

DIRECTORATE OF INTELLIGENCE  
Office of Current Intelligence

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CENTRAL INTELLIGENCE AGENCY  
Office of Current Intelligence  
13 May 1965

INTELLIGENCE MEMORANDUM\*

The 9 May Parade Missiles

1. The USSR is using the 20th anniversary of the end of World War II in Europe as an occasion for military displays directed at improving the image of Soviet power. As Soviet Defense Minister Malinovsky told the US Army attaché following Sunday's parade, the USSR wants "to insure the US understands Soviet capabilities."

2. In this context, the Soviets placed on display one ICBM that almost certainly is in only the research and development stage. This is a three-stage missile using solid propellants. It represents a considerable departure from previous Soviet strategic missile systems which have relied on liquid propellants.

3. This missile is about 60 feet long and is similar in appearance to the Minuteman. It probably is designed for ranges in the 5,000 to 6,000 mile category. From an initial examination, it appears capable of carrying a nuclear warhead of about 500 pounds [redacted]

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[redacted] Two of these weapons were shown and they were not identical in every feature--a fact pointing strongly toward their being test vehicles and not production models. [redacted]

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4. This ICBM was described by the Soviets as capable of being fired from a silo. It could be the missile intended for the new, small single silos, whose

\* This memorandum has been coordinated with OSI, ORR, ONE, and FMSAC.

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diameter is about 18 feet--compatible with a missile of this size.

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5. Another weapon shown in Moscow which suggests the Soviets are conducting a research and development program on solid propellants for large missiles is a missile in a heavy pod aboard a self-propelled launcher. This is the weapon Marshal Krylov, commander of Soviet Strategic Rocket Forces, described as representing a "breakthrough" in solid propellants when he was talking to the US Army attaché during an after the parade reception. The pod--this one is about 40 feet long--would provide an environmental cover. Allowing for shock supports and air circulation in the pod, the missile may be on the order of 38 feet in length and perhaps four feet in diameter.

6. Krylov said the missile could be fired to ranges of over 2,000 miles. Considerably more analysis will be required before Krylov's claim can be verified or disproved but such a range could be achieved with a two-stage vehicle of roughly this size, utilizing high-performance solid propellants and carrying a warhead of about 500 pounds.

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8. The third major piece of equipment shown for the first time was a large ICBM over 100 feet long described as "similar" to boosters used for manned space launches. This liquid-propellant missile has not yet been related to any known Soviet vehicle. All Soviet manned space shots have used the first Soviet ICBM, the SS-6, which has clustered engines in its first stage and not the tandem arrangement of the parade missile.

9. Marshal Krylov said this ICBM also was capable of being launched from a silo. If so, it may be intended for the larger single silo, which has a diameter

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of about 29 feet. More than 40 of these silos are being built. The parade missile, however, does not really match any known Soviet weapon and further analysis is necessary before assigning it any particular capability or launch mode.

10. Marshal Krylov, incidentally, also described a silo. He did not say whether this was the triple-silo used by the SS-7 and SS-8 or a single silo. He did say that the silo had concrete walls more than a yard thick and used sliding steel doors. He added it would withstand overpressures of 285 pounds per square inch.

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11. Also shown for the first time was an anti-tank missile mounted on an armored amphibious carrier. Six missiles are mounted on each vehicle. The missile probably weighs 15-20 pounds and may have a range of somewhat over 1,000 yards. Its guidance mode is not apparent.

12. Other weapons were shown which have been seen before. These included the known surface-to-air missiles and the Galosh, a large missile in a cannister probably intended for an anti-missile role. The SS-3 and SS-4 MRBMs, the SS-5 IRBM, the SS-8 ICBM and the Serb, a sub-merged-launched naval missile also were paraded.

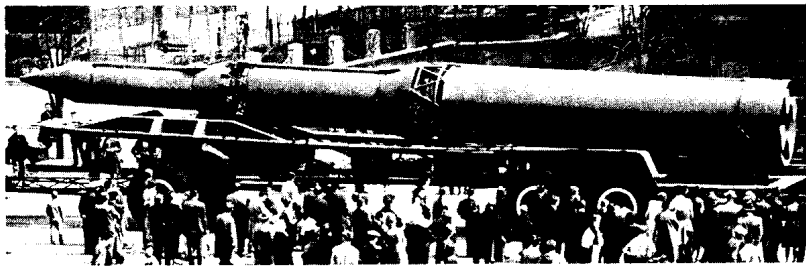
13. A good deal of analytical work remains to be done before more definitive statements can be made about the characteristics and performance of the missiles first seen last Sunday.

14. In connection with the parade display, the Soviets are giving wide distribution to a film showing many modern offensive and defensive weapons in operation. Exploitation of this film may produce additional information on the state and direction of Soviet weapons development. Both the parade and the film seem intended to impress bloc and foreign audiences with the strength of the Soviet military.

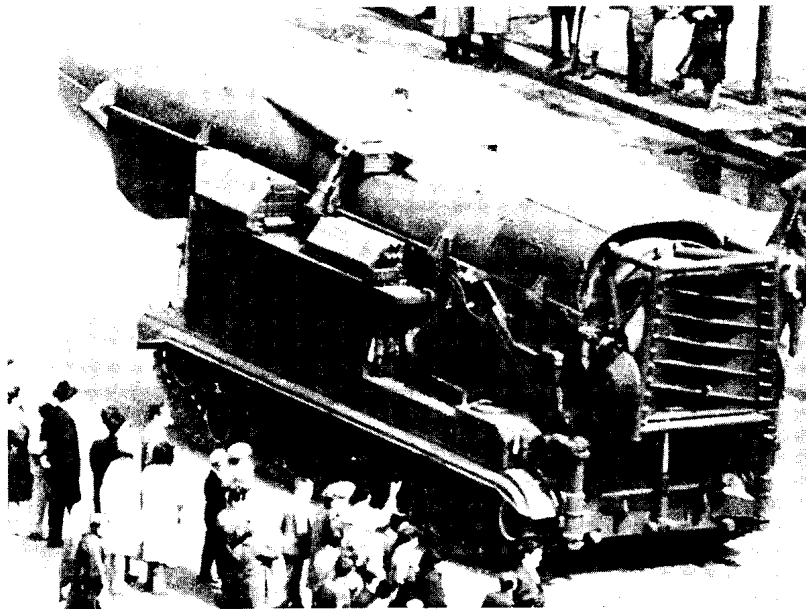
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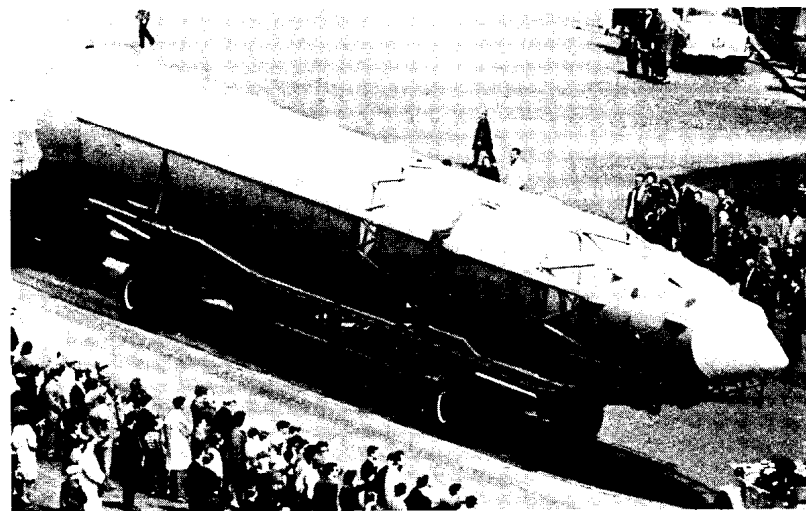
MISSILES PARADED IN MOSCOW ON 9 MAY



THREE-STAGE SOLID-PROPELLANT ICBM



SELF-PROPELLED SOLID-FUEL MISSILE



LIQUID-FUELED ICBM/SPACE BOOSTER

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